



The Woodcock-Muñoz Foundation

RESEARCH BRIEF

DOCTORAL DISSERTATION ABSTRACT

NEUROPSYCHOLOGICAL ASSESSMENT AND THE CATTELL-HORN-CARROLL (CHC) COGNITIVE ABILITIES MODEL

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The Woodcock-Muñoz Foundation (WMF) is a private non-profit operating foundation that supports the advancement of contemporary cognitive assessment practices. The Doctoral Dissertation Abstract Project is part of the Foundation's efforts to disseminate research findings that bridge the theory-to-practice gap in cognitive assessment.

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Abstract

This study determined whether popular neuropsychological measures evaluate Cattell-Horn-Carroll (CHC) broad and narrow cognitive abilities. A thorough literature review was conducted to identify relevant datasets that would permit factor analyses of targeted instruments. Seventy-seven datasets were obtained and analyzed, or reanalyzed, to ensure methodological consistency across samples. Many factor solutions included dimensions that reflected broad CHC ability constructs, which suggests it is possible to integrate aspects of neuropsychological assessment and the CHC theory. Overall, the project is relevant to assessment practice because it connects neuropsychological tests with CHC theory, and thus facilitates accurate interpretation of performances across different measures. It ultimately brings clinical practice and cognitive theory closer together.

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